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Observations of Swift's Comet (a 1892), made at the Royal Observatory, Greenwich.

(*Communicated by the Astronomer Royal.*)

The observations were made with the East, or Sheepshanks, equatorial, aperture 6·7 inches, by taking transits over two cross wires at right angles to each other, and each inclined 45° to the parallel of declination.

Magnifying power 55. The observations are corrected for refraction, but not for parallax.

Greenwich Mean Solar Time.	Observer.	☄−✱R.A.	Corr. for Refraction.	Log factor of Parallax.	☄−✱N.P.D.	Corr. for Refraction.	Log factor of Parallax.	No. of Comps.	Appt. R.A. of ☄	Appt N.P.D. of ☄	Comp. Star.
d h m s		s	s		′ ″	″			h m s	° ′ ″	
Apr. 22 14 7 0	A.C.	+ 30·57	+0·09	9·5786	+10 44·2	+0·1	0·8224	5	22 5 37·38	76 4 57·6	*a*
26 14 11 37	T.H.	+ 12·21	−0·03	9·5850	− 5 55·3	−0·3	0·8111	5	22 18 26·74	72 47 39 8	*b*
26 14 20 44	A.C.	+ 13·89	−0·03	9·5836	− 5 55·6	−0·1	0·8071	4	22 18 28·42	72 47 39·7	*b*
29 14 17 46	L.	+ 26·50	+0·04	9·5893	+ 9 39·9	+0 3	0·7995	4	22 27 48·29	70 29 29·3	*c*
29 14 21 57	C.D.	+ 26·65	+0·04	9·5884	+ 9 43·8	+0·2	0·7973	4	22 27 48·44	70 29 33·1	*c*
May 5 13 27 37	L.	+ 53 08	+0·10	9·6027	+16 24·0	+0·7	0·8134	3	22 45 40·06	66 14 44·6	*d*
5 13 38 7	,,	+ 9·75	−0·04	9·6040	− 6 28·1	−0·1	0·8068	2	...	...	*e*
5 13 43 42	,,	+ 18·13	+0·00	9 6044	+ 0 36·1	+0·0	0·8044	2	...	...	*f*
6 13 52 5	A.C.	+ 74·87	+0·05	9·6066	+13 32 4	+0·3	0·7953	3	22 48 38·83	65 34 17·8	*g*
6 14 1 37	,,	− 8·92	−0·03	9·6058	− 9 17 0	−0·1	0·7835	5	22 48 38·73	65 34 1·2	*h*
6 14 7 33	,,	+230·93	−0 06	9·6051	−24 22·5	−0·2	0·7836	2	22 48 37·78	65 33 57·1	*d*
7 13 58 17	B.	−393·70	−0·03	9 6080	− 8 28·3	0·0	0·7863	1	22 51 30·44	64 54 59·4	*k*
7 14 8 55	,,	+361·15	−0·03	9·6069	−11 12·2	−0·2	0·7786	1	22 51 34·31	64 55 3·3	*l*
7 14 15 26	,,	−620·00	−0·03	9·6053	−12 20·3	0·0	0·7738	2	22 51 30·45	64 54 45·2	*m*

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Comparison Stars.

Star's Name.	Mean R.A., 1892·0. h m s	Mean N.P.D., 1892·0. ° ′ ″	Authority.
a. W.B. (1) XXII., 51	22 5 7·27	75 54 0·1	Glasgow Observations, 1870.
b. W.B. (1) XXII., 338	22 18 15·11	72 53 22·2	Weisse's Bessel.
c. 39 Pegasi	22 27 22·29	70 19 35·8	Greenwich Observations 1887 and 1890, combined with Ten-Year Catalogue, 1880.
d. μ Pegasi	22 44 37·39	65 58 6·7	Greenwich Five-Year Catalogue of Fundamental Stars, 1890.
e. B.D. + 23° 4621	22 45 32·4	66 20·8	Bonn Observations, vol. iv.
f. Anonymous	22 45 (24)	66 14	
g. B.D. + 24° 4678	22 47 24·42	65 20 32·0	Bonn Observations, vol. vi.
h. B.D. + 24° 4681	22 48 48·19	65 43 5·4	,, ,, ,,
k. W.B. (2) XXII., 1292	22 58 4·72	65 3 15·1	Weisse's Bessel.
l. W.B. (2) XXII., 1026	22 45 33·66	65 6 2·6	,, ,,
m. 56 Pegasi	23 1 51·05	65 6 53·0	Greenwich Observations, 1887, 1889, 1890, combined with Ten-Year Catalogue, 1880.

Notes.

April 26.—The comet was very faint and difficult to observe owing to mist. April 29.—Both observers noticed a short tail.

The places of the comet agree closely with Berberich's Ephemeris.

The initials L., A.C., T.H., B , C.D , are those of Mr. Lewis, Mr. Crommelin, Mr. Hudson, Mr. Bryant, and Mr. Davidson respectively.

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Partial Eclipse of the Moon, 1892 *May* 11.

(*Communicated by the Astronomer Royal.*)

The following occultations of small stars were observed at Greenwich during the eclipse. Mr. Criswick (C.) used the 10-inch companion telescope to the photographic equatoreal and the clock Dent 2017. Mr. Lewis (L.) used the Sheepshanks equatoreal, aperture 6·7 inches, and the clock Earnshaw. Mr. Bryant (B.) used the altazimuth, aperture 4 inches, and the clock Graham I.

Star.	Observer.	Time Recorded.	Clock Fast.	Sidereal Time.	Mean Solar Time.
		h m s	s	h m s	h m s
B.D.−19° 4091 Dis.	L.	13 37 13·2	5·03	13 37 8·0	10 16 31·1
„ „ „	B.	13 37 40	31·29	13 37 8·7	10 16 31·8
„ −19 4093 „	L.	13 40 45 (*a*)	5·03	13 40 40	10 20 2·5
„ „ „	C.	13 41 42·5	38·90	13 41 3·6	10 20 26·1
„ −18 4047 Re.	L.	13 52 30 (*b*)	5·06	13 52 25	10 31 46
„ −19 4095 Dis.	„	13 55 42·5	5·06	13 55 37·4	10 34 56·5
„ „ „	C.	13 56 15·0 (*c*)	38·91	13 55 36·1	10 34 55·2
„ „ „	B.	13 56 15 (*d*)	31·21	13 55 44	10 35 3
„ −19 4096 „	C.	14 3 54 (*e*)	38·92	14 3 15·1	10 42 33·9
„ −19 4087 Re.	„	14 19 0·0 (*f*)	38·92	14 18 21·1	10 57 37·5
„ −19 4097 Dis.	„	14 31 2·0	38·93	14 30 23·1	11 9 37·5
„ „ „	L.	14 29 50 (*g*)	5·13	14 29 44·9	11 8 59·4
„ −19 4099 „	„	14 32 56·5 (*h*)	5·13	14 32 51·4	11 12 5·4
„ „ „	„	14 33 4·3	5·13	14 32 59·2	11 12 13·2
„ „ „	C.	14 33 38·0	38·93	14 32 59·1	11 12 13·1
„ „ „	B.	14 33 25	31·08	14 32 53·9	11 12 7·9
„ −19 4091 Re.	L.	14 55 1·2	5·17	14 54 56·0	11 34 6·4

Notes.

(*a*) The time was noted as uncertain to the extent of 2^s. It does not appear to have been a true occultation.

(*b*) The time was noted as very rough.

(*c*) Considered a good observation.

(*d*) The time was noted as rough.

(*e*) Very faint; noted as doubtful.

(*f*) Time doubtful; a little way from limb when first seen.

(*g*) Glided along limb for some seconds.

(*h*) This is a double star; the times of disappearance are for the two components.

Q Q